AUG 0 6 2007

applicant.

COPY OF PAPERS ORIGINALLY FILED

Sheet 1 of 1

FORM PTC			PARTMENT T AND TRAD			ATTY. DOCK IN01159K1	ET NO.:	SERIAL 10/052		
PADENTE	· ORM	PATEN IATION DISCLO	SLIRE STA	TEME	NT	APPLICANT:		10/032	2,300	
	O1 (1)	BY APPLI		71 - 101	111	SAKSENA,	et al			
	/1.1	se several sheet	e if nacass	and		FILING DATE		GROUP	;	
	- (0	Se several sheet	S II 116C688	ary)		01/18/2002		TBA		
		·	U.S. P.	ATENT	DOCU	MENTS				
*EXAMINER		DOCUMENT	DATE		NAM	ИE	CLASS	SUB-	FILING	
INITIAL	1	NUMBER		ļ				CLASS	APPRO	PRIATE
	AA			 			<u> </u>	 	 	
	AB			 				 		
	IAC			L				<u> </u>	1	
						CUMENTS				
		DOCUMENT	DATE	COUNT	RY		CLASS	SUB-		LATION
	1	NUMBER	1.000					CLASS	YES	NO
RP	AD	WO 01 74768	10/11/01	WIPO						
	AE	WO 01 40262 WO 00 52032	06/07/01 09/08/00	WIPO					 	
	AG	WO 00 52032 WO 99 07734	02/18/99	WIPO					.	
1	AH	WO 98 17679	04/30/98	WIPO				 	-	
	Ai	WO 30 17073	04/30/30	VVIII O			+	 	 	
	AJ			 			 	 	 	
	AK		1					† 	1	
	AJ								Ī	
	AK									
				<u> </u>						
	OT	HER DOCUMEN	TS (Includ	lina Aut	hor. Titl	e. Date. Pei	tinent Pa	aaes. Et	·c.)	
	TAL	WEI HAN, et al, "a								otease
RR		inhibitors", BIOOR(GANIC & ME	DICINAL	CHEMIS	STRY LETTER	S, Vol. 10,	No. 8, (2	(000), pp	o. 711-
- 4-	AM	LLINAS-BRUNET	MONTSE, et	al, "Stud	lies on the	e c-terminal of	hexapeption	de inhibite	ors of the	е
RIN		hepatitis C virus se No. 19, (1998), pp.		e", <i>BIOO</i>	RGANIC	& MEDICINAL	. CHEMIST	RY LET	TERS, \	/ol. 8,
	AN									
	AO									
	AP									
EV AARINIE	AQ	L			T	A				
EXAMINE	≺					ONSIDERED				
6	RS	Mo-			\	-27-	04			
		itial if reference con								
through cit	ation	if not in conformanc	e and not co	nsidered.	. Include	copy of this fo	rm with ne	xt commu	unication	ı to

PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

S	ostitute for form 1449A/B/PT	^		Complete if Known			
Suc	Stitute for form 1449/00/FT	Ü		Application Number	10/052,386		
11	NFORMATION	N DI	SCLOSURE	Filing Date	January 18, 2002		
	TATEMENT I			First Named Inventor	Saksena et al.		
				Art Unit	1653		
	(Use as many sh	eets as	s necessary)	Examiner Name	Not Yet Assigned		
Sheet	1	of	3	Attorney Docket Number	SCHERING 3.0-122 CIP		

U.S. PATENT DOCUMENTS								
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant			
initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear			
RAN	AA**	US-5,162,500	11-10-1992	Takeuchi et al.				
£4.	AB**	US-5,359,138	10-25-1994	Takeuchi et al.				
	AC**	US-5,488,067	01-30-1996	Hanson				
	AD**	US-5,496,927	03-05-1996	Kolb et al.				
	AE**	US-5,514,694	05-07-1996	Powers et al.				
	AF**	US-5,633,388	05-27-1997	Diana et al.				
	AG**	US-5,739,002	04-14-1998	De Francesco et al.	·			
	AH**	US-5,763,576	06-09-1998	Powers				
	Al**	US-5,843,450	12-01-1998	Dawson et al.				
	AJ**	US-5,843,752	12-01-1998	Dasmahapatra et al.				
		US-5,849,866	12-15-1998	Kolb et al.				
	AL**	US-5,854,001	12-29-1998	Casey et al.				
	AM*	US-6,265,380-B1	07-24-2001	Tung et al.				

	FOREIGN PATENT DOCUMENTS									
Exam	Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages				
	Initials* No.1		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	Ľ			
RP	$\overline{\wedge}$	BA**	EP-0 423 358-A1	04-24-1991	Naganawa et al.		igspace			
	-	BB**	EP-0 672 648-A1	09-20-1995	Naganawa et al.					
		BC**	WO-02/18369-A2	03-07-2002	Babine et al.		<u> </u>			
		BD**	CA-2362911-A1	09-08-2000	Takemura et al.		<u> </u>			
	\vdash		FR-2778406	11-12-1999	Hurst et al.					
	├	BF**	WO-92/11850	07-23-1992	Simpson et al.		$oldsymbol{ol}}}}}}}}}}}}}}}}}$			
 		BG**	WO-94/00095	01-06-1994	Eveleth et al.					
	\vdash		WO-95/33764	12-14-1995	Charbonneau					
		BI**	WO-97/06804	02-27-1997	McDade					
<u> </u>		BJ**	WO-98/12308	03-26-1998	De Francesco et al.					
	t	BK**	WO-98/13462	04-02-1998	McIver et al.					
 -	丁	BL**	WO-98/14181	04-09-1998	Chojkier et al.					
	十	ВМ*	WO-98/29435	07-09-1998	Baily et al.					
l	1		WO-98/37180	08-27-1998	Chen et al.					
	1	BO**		02-18-1999	Llinas-Brunet et al.		L			
7	<u> </u>	BP**		12-16-1999	Matassa et al.					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filling date under 35 U.S.C. 120. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁴ Applicant is to place a check mark here if English language Translation is attached. attached.

Examiner	Date	1 200 - 1
	Considered	1 1-4/-07 1
Signature K	Considered	

Ò

MAN 1 & 2003 E. C. Under Expraper

PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
work Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known 10/052,386 Application Number INFORMATION DISCLOSURE January 18, 2002 Filing Date STATEMENT BY APPLICANT Saksena et al. First Named Inventor Art Unit 1653 (Use as many sheets as necessary) Not Yet Assigned Exeminer Name SCHERING 3.0-122 CIP Attorney Docket Number 2 3 of Sheet

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
RRN	CA**	BARTENSCHLAGER et al., Substrate Determinants for Cleavage in cis and in trans by the Hepatitis C Virus NS3 Proteinase, Journal of Virology, Jan. 1995, Vol. 69, No. 1, pp. 198-205					
1	CB**	B** BENNETT et al., The Identification of a-Ketoamides as Potent Inhibitors of Hepatitis C Viru NS3-4A Proteinase, Biorganic & Medicinal Chemistry Letters 11 (2001), pp. 355-357					
\exists	CC**	BIANCHI et al., Synthetic Depsipeptide Substrates for the Assay of Human Hepatitis C Virus Protease, Analytical Biochemistry 237, 239-244 (1996)					
	CD**	BOUFFARD et al., An in Vitro Assay for Hepatitis C Virus NS3 Serine Proteinase, Virology 209, 52-59 (1995)					
	CE**	CHO et al., Construction of hepatitis C-SIN virus recombinants with replicative dependency on hepatitis C virus serine protease activity, Journal of Virological Methods 65 (1997), 201-207					
1	CF**	D'SOUZA et al., In vitro cleavage of hepatitis C virus polyprotein substrates by purified recombinant NS3 protease, Journal of General Virology (1995), 76, 1729-1736					
	CG**	FILOCAMO et al., Chimeric Sindbis Viruses Dependent on the NS3 Protease of Hepatitis C Virus Journal of Virology, Feb. 1997, p. 1417-1427					
	CH**	HAHM et al., Generation of a Novel Poliovirus with a Requirement of Hepatitis C Virus Protease NS3 Activity, Virology 226, 318-326 (1996)					
	CI**	HAMATAKE et al., Establishment of an in vitro Assay to Characterize Hepatitis C Virus NS3-4A Protease Trans-Processing Activity, Intervirology 1996;39:249-258					
	CJ**	HARBESON et al., Stereospecific Synthesis of Peptidyl a-Keto Amides as Inhibitors of Calpain, J. Med. Chem. 1994, 37, 2918-2929					
	CK**	ITO et al., Cultivation of hepatitis C virus in primary hepatocyte culture from patients with chronic hepatitis C results in release of high titre infectious virus, J. Gen. Virol 1996 May; 77 (Pt 5):1043-54					
	CL**	LU et al., Poliovirus chimeras replicating under the translational control of genetic elements of hepatitis C virus reveal unusual properties of the internal ribosomal entry site of hepatitis C virus, Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 1412-1417, February 1996					
	CM**	MIZUTANI et al., Characterization of Hepatitis C Virus Replication in Cloned Cells Obtained from a Human T-Cell Leukemia Virus Type 1-Infected Cell Line, MT-2, Journal of Virology, Oct. 1996, p. 7219-7223					
	CN**	MIZUTANI et al., Inhibition of Hepatitis C Virus Replication by Antisense Oligonucleotide in Culture Cells, Biochemical and Biophysical Research Communications, Vol. 212, No. 3, 1995, pp. 906-911					
	co	MIZUTANI et al., Long-Term Human T-Cell Culture System Supporting Hepatitis C Virus Replication, Biochemical and Biophysical Research Communications 227, 822-826 (1996)					
	CP**	NARJES et al., a-Ketoacids are Potent Slow Binding Inhibitors of the Hepatitis C Virus NS3 Protease, Biochemistry (2000), Vol. 39, pp. 1849-1861					
	cq**	OGILVIE et al., Peptidomimetic Inhibitors of the Human Cytomegalovirus Protease, J. Med. Chem. 1997, 40, 4113-4135					
1	CR**	SCARSELLI et al., GB Virus B and Hepatitis C Virus NS3 Serine Proteases Share Substrate Specificity, Journal of Virology, July 1997, p. 4985-4989					
1	CS**	SCHECHTER et al., On the Size of the Active Site in Proteases, Biochemical and Biophysical Research Communications, Vol. 27, No. 2, 1967					
4	ст**	SHIMIZU et al., Multicycle Infection of Hepatitis C Virus in Cell Culture and Inhibition by Alpha and Beta Interferons, Journal of Virology, Dec. 1994, p. 8406-8408					

Examiner Signature	RRM	Date Considered	1-27-04
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	stitute for form 1449A/B			Complete If Known		
300	SUILUIG TOT TOTAL T44974 D	,, 10		Application Number	10/052,386	
10	IFORMATIO	ON DIS	SCLOSURE	Filing Date	January 18, 2002	
S	TATEMENT	BY A	PPLICANT	First Named Inventor	Saksena et al.	
				Art.Unit	1653	
	(Use as many	sheets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	3	of	3	Attorney Docket Number	SCHERING 3.0-122 CIP	

000	CU**	STEINKUHLER et al., Product Inhibition of the Hepatitis C Virus NS3 Protease, Biochemistry	
୲୵୰	<u> </u>	1998, Vol. 37, pp. 8899-8905	
	CV**	SUDO et al., Establishment of an in vitro assay system for screening hepatitis C virus protease	
l 1		inhibitors using high performance liquid chromatography, Antiviral Research 32 (1996), pp. 9-	
ll	1	18	
	CW**	TAKESHITA et al., An Enzyme-Linked Immunosorbent Assay for Detecting Proteolytic Activity	
	1000	of Hepatitis C Virus Proteinase, Analytical Biochemistry (1997), 274, pp. 242-246	
		TALIANI et al., A Continuous Assay of Hepatitis C Virus Protease Based on Resonance	
i 1	CX**	TALIANI et al., A Continuous Assay of Repatits C Vilus Protease Based of Nessonance	
ŀ		Energy Transfer Depsipeptide Substrates, Analytical Biochemistry 240 (1996), pp. 60-67	
	CY**	TAREMI et al., Construction, expression, and characterization of a novel fully activated	
	i i	recombinant single-chain hepatitis C virus protease, Protein Science (1998), 7:2143-2149	
	CZ**	TONG et al., Conserved mode of peptidomimetic inhibition and substrate recognition of human	
l I	10-	cytomegalovirus protease, Nature Structural Biology (1998), Vol 5., No. 9, pp. 819-826	
\vdash	CA 1**	TSUDA et al., Poststatin, a New Inhibitor of Prolyl Endopeptidase, The Journal of Antibiotics	
1	CAT		
		(1996), Vol. 49, No. 3, pp. 287-291	
l 1	CB1**	TSUDA et al., Poststatin, a New Inhibitor of Prolyl Endopeptidase, The Journal of Antibiotics	
I \		(1996), Vol. 49, No. 9, pp. 890-899	
	CC1**	URBANI et al., Substrate Specificity of the Hepatitis C Virus Serine Protease NS3, Journal of	
1 1	1	Biological Chemistry (1997), April 4 Issue, pp. 9204-9209	
 	CD1**	WANG et al., Expression of HCV NS3 Protease and Detection of Its Activity in Mammalian	
l I	CD1	Cells, 4th International Meeting on Hepatitis C Virus and Related Viruses, Molecular Virology	
1 1	ļ	Cells, 4th International Meeting of Propagation College and North College Wilders & 40, 1007	
		and Pathogenesis, March 6-10, 1997	_
1 7	CE1**	WASSERMAN et al., (Cyanomethylene) phosphoranes as Novel Carbonyl 1,1-Dipole	
1 1	l I	Synthons: An Efficient Synthesis of a-Keto, Acids, Esters, and Amides, J. Org. Chem. (1994),	
	1 1	Vol. 59 pp. 4364-4366	
	CE1**	ZHANG et al., Probing the Substrate Specificity of Hepatitis C Virus NS3 Serine Protease by	
l v		Using Synthetic Peptides, Journal of Virology, Aug. 1997, pp. 6208-6213	
ı ¥	5	Toshiy Synthetic Februas, Journal of Vilology, Aug. 1007, pp. 0200 0270	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filling date under 35 U.S.C. 120.

Examiner Signature	RRM	Date Considered	1-27-04

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.